

<110> Craig Rosen et al.

<120> 20 Human Secreted Proteins

<130> PZ005P1

<140> Unassigned

<141> 1998-10-06

<150> PCT/US98/06801

<151> 1998-04-07

<150> 60/042,726

<151> 1997-04-08

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<151> 1997-04-08

<150> 60/042,728

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<150> 60/042,825

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<150> 60/048,068

<151> 1997-05-30

<150> 60/048,070

<151> 1997-05-30

<150> 60/048,184

<151> 1997-05-30

<160> 86

<170> PatentIn Ver. 2.0

<210> 1

<211> 733

<212> DNA

<213> Homo sapiens

<400> 1

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catcccgga	tgagctgacc	aagaaccagg	tcagcctgac	ctgcctggtc	aaaggcttct	480
atccaagcga	catcgccgtg	gagtgggaga	gcaatgggca	gccggagAAC	aactacaaga	540
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gccccctaact ccgcccagtt cccgccatc tccgccccat ggctgactaa tttttttttat      180
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31

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 cagttccgcc cattctccgc cccatggctg actaatTTTT tttatttatg cagaggccga
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 <223> n equals a,t,g, or c

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 aaaatcctaa aattgaaaaa aaaagtctag tcatatccat aaactgtatc atcaccaaga
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60
120
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240

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<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

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<223> n equals a,t,g, or c

<220>

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ggtcaatgac	aagcccgtgt	gcaagccctg	ctatgtgaag	aatcacgctg	tgggtgtgtca	300
aggatgccac	aatgccatcg	accagaagt	gcagcgcgtg	acctataaca	atttcagctg	360
gcatgcatcc	acagagtgtc	ttctgtgtc	ttgctgcagc	aatgcctca	ttgggcagaa	420
gttcatgcc	gtagaaggga	tggttttctg	ttcagtggaa	tgtagaaga	ggatgtctta	480
ggaggagggc	accagaagt	atcgagccat	agctatccaa	agtggctctg	atttctactg	540
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<211> 2067

<212> DNA

<213> Homo sapiens

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ctgcttcttt	ttgtggttgc	tgcttttttg	acttcttgga	attagtgggt	tccttggtta	180
tatttccagt	gctggtarca	gtatatatgt	catgtggaag	gtggaraagg	aatgaatac	240
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cacccaagca	gttaacctac	tgaaaaatgc	atctggctcc	attgaaatgc	aggtgggtgc	420
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<211> 1341

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<221> SITE

<222> (145)

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<210> 17

<211> 749

<212> DNA

<213> Homo sapiens

<400> 17

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<211> 511

<212> DNA

<213> Homo sapiens

<220>

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<222> (459)

<223> n equals a,t,g, or c

<220>

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<222> (494)

<223> n equals a,t,g, or c

<400> 18

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agaccaccag	gctgagtatc	ctgacctgag	tcattccccag	ggatcaggag	cctccagcag	180
ggaacctttcc	attatatctt	tcaagcaact	tacagctgca	ccgacagtgt	cgatgaaagt	240
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ccaggaaggc	ggccaagaat	gtragtgc	aa	agattgggtc	ctgagagccc	420
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<210> 19

<211> 689

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (281)

<223> n equals a,t,g, or c

<400> 19

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cgcttcttca	ccatcctcgg	gctgttctgc	gcggggccagg	gcgtcttctg	ggcttccatg	180
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aatcgtggcc	ccttcgacct	gcgctccgcg	ytctggcgct	nacgggtctg	ccgtcggctg	300
cgggcgccatc	ggagccctcg	tactcggtgc	tggtcttctc	ttctctctcc	ggctctgtgcg	360
ctcagtgggtg	cttcgagctg	gagggcagca	ggtgaccctc	accactcatg	ccccctttgg	420
cttggggggcc	catttcacag	ttcctttgaa	gcaggatatc	tgcatggccc	accgggggtga	480
agtccctgcc	atgctacctc	tgaaakkcaa	aggccgacgc	ttctatttcc	tcttggacaa	540
aactggacac	ttcccytaac	acaaaactyt	ttgacaatac	tgtgggtgcc	taccggagct	600
tgtgaagaaa	tgacctcaag	tcactcacct	ctccaagagg	aggataaaaa	ctgaacctyg	660
gggagccagg	tgtgttggtt	cacacctgt				689

<210> 20

<211> 1147

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1146)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1147)

<223> n equals a,t,g, or c

<400> 20

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gtcccaacct	gaagctgaag	aagccgccct	gggtgcacat	gccgtcggcc	atgactgtgt	180
atgctctggg	gggtgtgtct	tacttctca	tcaccggagg	aataatttat	gatgttattg	240
ttgaacctcc	aagtgtcggg	tctatgactg	atgaacatgg	gcatcagagg	ccagtagctt	300
tcttggccta	cagagtaaat	ggacaatata	ttatggaagg	acttgcaccc	agcttcctat	360
ttacaatggg	aggttttagg	ttcataatcc	tggaccgatc	gaatgcacca	aatatcccaa	420
aactcaatag	attccttctt	ctgttcattg	gattcgtctg	tgtcctattg	agttttttca	480
tggctagagt	attcatgaga	atgaaactgc	cgggctatct	gatgggttag	agtgcctttg	540
agaagaaatc	agtggatact	ggatttgcct	ctgtcaatga	agtttttaaag	gctgtaccaa	600
tcctctaata	tgaaatgtgg	aaaagaatga	agagcagcag	taaaagaaat	atctagtga	660
aaaacaggaa	gcgtattgaa	gcttggacta	gaatttcttc	ttgggtattaa	agagacaagt	720
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ttcttttttag	tttttcatta	aaatatattc	catatctaca	actataatat	caaataaagt	840
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gtaaaactgt	ttcctgaaca	ataagatgta	tgaacggagc	agaaataaat	acttttttcta	1080
attaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1140
aaaaann						1147

<210> 21
 <211> 532
 <212> DNA
 <213> Homo sapiens

<400> 21						
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gccatggagt	caggccacct	cctctgggct	ctgctgttca	tgcagtcctt	gtggcctcaa	120
ctgactgatg	gagccactcg	agtctactac	ctgggcatcc	gggatgtgca	gtggaactat	180
gctcccaagg	gaagaaatgt	catcacgaac	cagcctcttg	acagtgcacat	gtaggtttaa	240
tttcttgtgg	tatttgaggg	gaagtatatg	gagcactcct	gaggtcagga	agtagcctct	300
tgaggccctt	ttcccarggt	gtggtagcag	ccagctcctg	attgctccga	gctgtacata	360
ctcagtggca	gatttccctg	gaagaagcta	gttgagtcag	aasccagcat	ttcatctgga	420
gtttgscgta	acatttttag	agtcctaaag	araattccat	atttgcgtgt	ttctaattctc	480
ataccaccaca	tgctacttat	ttaataacaa	ctgtttgact	ttaaaaaaaa	aa	532

<210> 22
 <211> 2743
 <212> DNA
 <213> Homo sapiens

<400> 22						
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aacaagacta	aaaagtccct	agtagcgctg	tgtggccgca	aacctgaacc	caccttttgc	120
accacgcggg	accggcactt	cttccctgcca	cccacccctg	agaggggtgcg	cggccgaccc	180
cagtactaga	aaacactcgt	cacctcactc	aagacgggta	cgaaggccaa	cggacgcctt	240
ccttttagaac	gctcagcaca	cagagcaact	tctcacgcct	actctcaaata	ggcgtactcc	300
aaactagcac	tcccgacgtc	cagctgtgaa	cccagagcgg	cggaaagccc	tggaaaccag	360
cggccgggca	tgygcagacg	cgttgtttgt	gtgggcgtgg	ctccctccgg	accgggcgcc	420
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cgggtgtctg	gaggctgtgg	ccgtttttgt	ttcttggcta	aaatcggggg	agtgaggcgg	540
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aaaaaatgtc	tgcatttcta	gagggttga	gatgctcaga	atgcattgac	tggggggaaa	660
agcgcaatac	tattgcttcc	attgctgctg	gtgtactatt	ttttacaggc	tgggtggatta	720
tcatagatgc	agctgttatt	tatcccacca	tgaagattt	caaccactca	taccatgcct	780

gtgggtgttat	agcaaccata	gccttcctaa	tgattaatgc	agtatcgaat	ggacaagtcc	840
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ttgggtttcat	gttggccttt	ggatctctga	ttgcatctat	gtggattcct	tttggagggt	960
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cacatctgat	ttcccacagc	acaacagccc	tgcatgggtt	tgtttgtttt	tttactgctc	1140
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tgcacttgat	taacttataa	aatgttagag	gaaactttca	catgaataat	ttttgtcaaa	1320
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caatgtaagt	atgtgtcata	tctgagggtc	aaaaccacaa	tgaagtgctt	ctgaagattt	1440
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agggcagaga	cttgacactc	cagtcttaga	caggggacaa	tttctttgta	gttgttctga	1860
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caactgagca	caacctcttt	ccccacagtg	caattcagaa	tatgctcagg	gaatgcccagc	2460
caccttgtaa	aactgctggg	agaaaagcat	gattcccaca	aggactaagt	atcagtgatt	2520
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catgctttat	taagcatgag	aaagaatctt	aagaattgtc	aataaaaatta	acccaaaact	2640
ttaataatgt	gtctgttaacc	aagaaaatat	tgatagcatc	atcctaataga	aactaaacat	2700
ttatttttaaa	cttattaaat	tgactcttaa	actaaaaaaa	aaa		2743

<210> 23

<211> 820

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (784)

<223> n equals a,t,g, or c

<400> 23

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ctgagcaggc	ctctaatact	rcctcagctg	tcaccagtag	ccaaccttcc	acagtgtcag	120
agacttcagc	tactcttaca	agcaatagta	ccactggcac	ttctatagga	gatgactcaa	180
ggagaactac	atctagtgtc	gtaacggaaa	ctggccctcc	tgcaatgcca	aggttacctt	240
cctgctgtcc	ccagcactca	ccatgtggag	ggctgtcaca	gaaccaccat	gcattaggac	300
atcctcatat	aagttgtctt	cagcagcatg	gtcaccattt	tcaacatcat	caccaccacc	360
accatactcc	ccactcagac	cgccgcccgc	cgcccatcat	ggacaccagc	cgtgtgcagc	420
ctatcaagct	ggccagggtc	accaagggtc	tgggcaggac	cgtttctcag	ggacagtgca	480
cgcagggtgc	cgtggaattc	atggacgaca	cgagccgac	catcatccgc	aatgtaaaag	540
gccccgtgcg	cgagggcgac	gtgtctaccc	ttttggagtc	agagcgagaa	gccccgagggt	600
tgcgctgagc	ttggctgtct	gtgtgggtctt	ggatgtcggg	ttcgaccact	tggccgatgg	660
gaatgggtctg	tcacartctg	ctcctttttt	ttgtccgcca	cacgttaactg	agatgtctct	720

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ttaaataaag cgtttgtgtt tcaagttaaa aaaaaaaaaa aaaaaaaaaa acyccggggg 780
gggncccggt acccattggc cctwtagtgg gtcgtttttc 820

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<210> 24
<211> 995
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (801)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (834)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (992)
<223> n equals a,t,g, or c

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<400> 24
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ccctggagat gggaaagtgt ctgtgtcgag gcgctgagct ctctctctgt ttctcctttt 120
ttcctctact ccttccccctt cacacccccg tggctggaag gaacctcggc ttccctgaaa 180
gcttgggggt cccacccttc ttacccacc cgggaggaac gccagggcc cggggcttgt 240
ttctcctctt gttttccttt tgggcagttt gatcactgat cgagtaagga atgaccttta 300
gattgtgcga cttttgtttt tgttttttta aattttttta aaccaagaat gatttctcct 360
gcttccttct cctcaccatc ttcccagacg gagttcaaag gccacttctc aagcagcttt 420
tggcaccttc agcctcagag tggaatcttt taaagacagg acccctatgt ccaggaaagg 480
ggaaaaggaa ctttgccaat gatagtgacc acagcaaaag caaataataa taatattaat 540
aataataaag agaaataaaa taataaaaata aaaaacaata gcacagccct tgttgaggtc 600
agcagggagg aggggctgcc cggagttggg tccttgccctg gattttgaca cagcaacttc 660
ctgtagttag cactttgtat gaatcgtgga cttcctgttc tcaaggcgca ggtattttatt 720
ctgtatctgt ctagagcaca caccaaaatc caaccttcta ataaacatga tggcgcagtc 780
ccactccctg cctcgctgtt ncccctatcc ccccaggcc tgggatcttc aggngtcggt 840
gtggggaggg gccctgccc tcttgccctt gattttgctc ccctgggtcc agctgggtcc 900
aggcctgtga atgtcagttc gtcgggcact gactcgtct gctcttgggc cttgggggtca 960
tttgacaaat atttgcccaa gggctcccaa gncca 995

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```

<210> 25
<211> 649
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (527)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (647)
<223> n equals a,t,g, or c

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<220>
 <221> SITE
 <222> (648)
 <223> n equals a,t,g, or c

<400> 25
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 aattattcat tgttctcctt cactcccttg ctcagacatg tktcccatgt caccgccaggg 120
 gaggctgtya tgtcacaaga tgttggtact gatgatcttg gaattwtttc cctgccccca 180
 gcctgggact aatgtaatta ttattttcaat gtgctttttc ttaagccata gcaatgcaat 240
 ttatcttcaa cattatcatt tttaaacatc tgttaattat taacaattta ctgctyctyc 300
 ttgcacaaaa tgctattcca gtaacattta ttaattaagt tatgtwcaca taccaaagat 360
 tttacaggct tgtaaaatag caggccatty caaggatttc tctcttggtg ragamatttg 420
 twgggaaaga gttatataat cactaaatta cattcatatc aagaacactt ttcctgagtg 480
 aaattagtct aggtttgctt aagtgtctct tttttattta actaagnaaa tatcatgcca 540
 tatctgtctt atattgctat tatctctccc ttccgaggac cacatcttct gttacaagag 600
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<210> 26
 <211> 979
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (751)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (858)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (885)
 <223> n equals a,t,g, or c

<400> 26
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 tgggattttg ataagaattg cattgatcct ttataccaat ttgaggagga tttatgtact 120
 ttttgtcgag tcttttaatc catgaacatg ttatatctgt tatatttagc attttgattt 180
 tttcctcagt gttgcatagt tttcagtata caaatcctgt accctttttt ttttagattta 240
 cacctagtagc tttatttttt gagcaattgt aaatgggtatt gtatttttaaa tttcattgcc 300
 catgtgttcc attgctaata tactgaaata arattggctt ttgtatgttt atcttgtatc 360
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 ataracagtt atgtcatctg caaatgggga tagttttgtt ttttccttta caaactgtat 480
 actttttttta tctgtttctt gctttattgc gagaacttct agagctgtgt tgagtaatag 540
 tggatatctt tgccttggtc atgttcttat agggaaagca ttcagtcttt caccatttag 600
 tataatgtta gctgtaggga ctttttagat ccctttacca gattgatgaa agttcctctc 660
 tattcccat tttctgagag gctttttaa aaaagaatga atgggtgttc gattttgtca 720
 aatgcatttc tgtgtcagtt gctatgaaca ngtgtttttc ttatttagcc tgttaatatg 780
 gtagattaca ttgattggct ttctgatctt gagtcagcat tgcatacctg gaataaactc 840
 cacctgggtg tggagaanaa atcttttttt tttttttttt tttangagat ggagtctcgc 900
 tctgtcacc aggctggagt gcagtgggtg gattgtggct cacggcaagt tcctcctcct 960
 gggttcccat cattctcaa 979

<210> 27
 <211> 905
 <212> DNA
 <213> Homo sapiens

<400> 27
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 caaaaaaagg aatggatcag attgtcttga atagggcaga gctaacctgt aatcacctgt 120
 gtgatgagaa asagctttga ctgcatttta ctctgacct ggcctaagct ttctgtttac 180
 ataagatttt tcaagaattc aacttcaagt agcagccgag agagctgcct caggattctc 240
 tcaaaaactg ggaataatat gggaacattt gtttcttcta aaaataaggc aaatgttaca 300
 ttgaatgatt tggggggtga ggtttaattg gaaatggtct ctggggactg aaaactgatg 360
 tttttgcaga ttacctcagg gaaacggagg tttgttgagt ttacagacac attaaaccaa 420
 agggcgtggg aaaacccctc tccagctcca ggggattggg caggaccacc cactaaccag 480
 tgccttcctt cttaacattc acttttagca gcttggtgtt attttacctg ggcagttttg 540
 atgggaaatt gccatgacca caggggtttg gagtctctgt tttttttttt cttcttcttt 600
 ttcgggggac tgggggactc ctccaagat cacattttag catctttctc tcctactcca 660
 tttagaaaaa taagtaacag gtgaaatgtg gtctcagtgt taacgggata attctgctac 720
 cggctcctcc ctgatgatc tgaatacac tactgaacga gctctggctg gtcctttcta 780
 tcttgatgtt gggtcttctg tgtagcaatt ccttgatgtc cagtttggaa agatgtactc 840
 ttctcaacaa gaaaaactta aatccgtcgt gcccaaaaaa aaaaaaaaaa aaaaaaaaaa 900
 ctgca 905

<210> 28
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 28
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 cctcagcccc acaagtagct gggattacag gcatgcatca ccacaccctg ctaatttttg 180
 tatttttagt agagacggcg tttcaccatc ttggccagac tgggtctcaa ctctggcct 240
 caagtgatc gtctgcctca gcctcccaaa aaaaaaaaaa aaaaaaaaaa aagaattcc 299

<210> 29
 <211> 338
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (332)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (333)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (335)
 <223> n equals a,t,g, or c

<400> 29
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 atcytccctc agcytcctaa gtacctagga gtcatgcacc aacatgcccc gctaagtatt 180
 ttattttttg tagagataag gtcttgctgt gttgcccagg ctagtctcaa attcctggcc 240
 tcaagcaatc cttctgcctt ggcttcccaa attgttgggt ttkacaggca ttagccktta 300
 tgcttggscc ccaggtcctt tttttttaaa anntnaaa 338

<210> 30
 <211> 500
 <212> DNA
 <213> Homo sapiens

<400> 30
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 gtacgcacat cttctgctgg tatctgttag cccaacccag gccacgtgga ctctcccaga 180
 tgccagagac catgagaaga agaagagaaa gggcttggag aaggatggac cactcaccat 240
 ttgctggaat aaacaatact gcagtccttg ttttaacact tcattttcat catgccacac 300
 tgtcggtaac tgaataacgg ccacccacag atgtcagggc ttatccctgg aacccggaaa 360
 tgggtgtttgc agatgggagt gaaagcaggt ctttgyagaa gggatcaagt tagggatctt 420
 gagatgggaa gaatttcctg gattgtcctg ctagacacta aaaaaaaaaa aaaaaaaaaa 480
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<210> 31
 <211> 654
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (17)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (647)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (651)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (653)
 <223> n equals a,t,g, or c

<400> 31
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 cagtgccaca atgggtcagc tgtaccagga acaccatgaa gaagacttct ttctctacat 120
 tgccacagc gacgaaagtg tctacggtct gtgaagctgc tgcccctgag ctggaggggg 180
 gtctcattct acaaagagag aggtggcccc cttttcttga cctcctcctc cttcaagctc 240
 aaacaccacc tcccttattc aggaccggca cttcttaatg tttgtggctt tctctccagc 300

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ctctcttagg aggggtaatg gtggagttgg catcttgtaa ctctcctttc tcctttcttc 360
ccctttctct gccgccttt cccatcctgc tgtagacttc ttgattgtca gtctgtgtca 420
catccagtga ttgttttggt ttctgttccc tttctgactg cccaaggggc tcagaacccc 480
agcaatccct tccttttact acctttcttt ttgggggtag ttggaaggga ctgaaattgt 540
ggggggaagg taggaggcac atcaataaag aggaaaccac caagctgaaa aaaaaaaaaa 600
aaaaactcga gggggggccc ggtacccatt ggccctaagg ggggggntta nant 654

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<210> 32
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 32
 Met Ile Tyr Tyr Phe Leu Lys Asn Gln Cys Gly Leu Pro Phe Leu Phe
 1 5 10 15
 Leu Leu Ile Pro Leu Phe Glu Phe Leu Cys Val Ser Phe Ala Phe Pro
 20 25 30
 Ser Gln Ser Gly Gly Val Arg Pro Ala Leu Trp Asp Glu Arg Ser Cys
 35 40 45
 Gly Tyr Val Ser Ala Gly Thr Lys Arg Ala Glu Gly Glu Val Trp Lys
 50 55 60
 Gly Gln Gly Glu Glu Met Gly Ser Ile Val Lys Arg Leu Val Pro Leu
 65 70 75 80
 Ser Lys Tyr Val Glu Asn Asp Asp Gly Lys Val Ser Pro Cys
 85 90

<210> 33
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 33
 Met His Pro Gln Ser Ala Phe Cys Ala Leu Ala Ala Ala Asn Ala Ser
 1 5 10 15
 Leu Gly Arg Ser Ser Cys Gln
 20

<210> 34
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 34
 Met His Cys Phe Phe Leu Trp Leu Leu Leu Phe Gly Leu Leu Gly Ile

1 5 10 15
 Ser Gly Phe Leu Gly Tyr Ile Ser Val Ala Gly Xaa Ser Ile Tyr Val
 20 25 30

Met Trp Lys Val Glu Lys Glu Met Asn Thr
 35 40

<210> 35
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 35
 Met Phe Leu Ser Leu Pro Thr Leu Thr Val Leu Ile Pro Leu Val Ser
 1 5 10 15

Leu Ala Gly Leu Phe Tyr Ser Ala Ser Val Glu Glu Asn Phe Pro Gln
 20 25 30

Gly Cys Thr Ser Thr Ala Ser Leu Cys Phe Tyr Ser Leu Leu Leu Pro
 35 40 45

Ile Thr Ile Pro Val Tyr Val Phe Phe His Leu Trp Thr Trp Met Gly
 50 55 60

Ile Lys Leu Phe Arg His Asn
 65 70

<210> 36
 <211> 410
 <212> PRT
 <213> Homo sapiens

<400> 36
 Met Glu Leu Pro Ser Gly Pro Gly Pro Glu Arg Leu Phe Asp Ser His
 1 5 10 15

Arg Leu Pro Gly Asp Cys Phe Leu Leu Leu Val Leu Leu Leu Tyr Ala
 20 25 30

Pro Val Gly Phe Cys Leu Leu Val Leu Arg Leu Phe Leu Gly Ile His
 35 40 45

Val Phe Leu Val Ser Cys Ala Leu Pro Asp Ser Val Leu Arg Arg Phe
 50 55 60

Val Val Arg Thr Met Cys Ala Val Leu Gly Leu Val Ala Arg Gln Glu
 65 70 75 80

Asp Ser Gly Leu Arg Asp His Ser Val Arg Val Leu Ile Ser Asn His
 85 90 95

Val Thr Pro Phe Asp His Asn Ile Val Asn Leu Leu Thr Thr Cys Ser
 100 105 110

Thr Pro Leu Leu Asn Ser Pro Pro Ser Phe Val Cys Trp Ser Arg Gly
 115 120 125
 Phe Met Glu Met Asn Gly Arg Gly Glu Leu Val Glu Ser Leu Lys Arg
 130 135 140
 Phe Cys Ala Ser Thr Arg Leu Pro Pro Thr Pro Leu Leu Leu Phe Pro
 145 150 155 160
 Glu Glu Glu Ala Thr Asn Gly Arg Glu Gly Leu Leu Arg Phe Ser Ser
 165 170 175
 Trp Pro Phe Ser Ile Gln Asp Val Val Gln Pro Leu Thr Leu Gln Val
 180 185 190
 Gln Arg Pro Leu Val Ser Val Thr Val Ser Asp Ala Ser Trp Val Ser
 195 200 205
 Glu Leu Leu Trp Ser Leu Phe Val Pro Phe Thr Val Tyr Gln Val Arg
 210 215 220
 Trp Leu Arg Pro Val His Arg Gln Leu Gly Glu Ala Asn Glu Glu Phe
 225 230 235 240
 Ala Leu Arg Val Gln Gln Leu Val Ala Lys Glu Leu Gly Gln Thr Gly
 245 250 255
 Thr Arg Leu Thr Pro Ala Asp Lys Ala Glu His Met Lys Arg Gln Arg
 260 265 270
 His Pro Arg Leu Arg Pro Gln Ser Ala Gln Ser Ser Phe Pro Pro Ser
 275 280 285
 Pro Gly Pro Ser Pro Asp Val Gln Leu Ala Thr Leu Ala Gln Arg Val
 290 295 300
 Lys Glu Val Leu Pro His Val Pro Leu Gly Val Ile Gln Arg Asp Leu
 305 310 315 320
 Ala Lys Thr Gly Cys Val Asp Leu Thr Ile Thr Asn Leu Leu Glu Gly
 325 330 335
 Ala Val Ala Phe Met Pro Glu Asp Ile Thr Lys Gly Thr Gln Ser Leu
 340 345 350
 Pro Thr Ala Ser Ala Ser Lys Phe Pro Ser Ser Gly Pro Val Thr Pro
 355 360 365
 Gln Pro Thr Ala Leu Thr Phe Ala Lys Ser Ser Trp Ala Arg Gln Glu
 370 375 380
 Ser Leu Gln Glu Arg Lys Gln Ala Leu Tyr Glu Tyr Ala Arg Arg Arg
 385 390 395 400
 Phe Thr Glu Arg Arg Ala Gln Glu Ala Asp
 405 410

<210> 37
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 37

Met	Arg	Pro	Pro	Ser	Ser	Ser	Gly	Ala	Ala	Ala	Ser	Gln	Thr	Val	Asp
1				5					10					15	
Thr	Phe	Val	Thr	Val	Gly	Asn	Val	Glu	Lys	Glu	Val	Phe	Phe	Met	Val
			20					25					30		
Phe	Leu	Val	Gln	Leu	Thr	His	Cys	Gly	Thr	Gly	Gly	Trp	Asn	Asp	Ile
		35					40					45			
Val	Asp	Lys	Glu	Lys	Gln	Gly	Ile	Leu	Ser	Ser	Glu	Met	Asn	Ser	Leu
	50					55					60				
Pro	Asp	Gln	Glu	Val	Glu	Leu	Thr	Asn	Cys	Glu	Ile	Arg	Arg	His	Gln
65					70					75					80
Val	Phe	Leu	Phe	Val	Gln	Val	Ser	Tyr	Pro	Ser	Phe	Gly	Ser	Leu	Phe
				85					90					95	
Tyr	Tyr	His	Arg	His	Pro	Val	Arg	Val	Phe	Leu	Ser	Asp	Leu	Leu	Ala
			100					105					110		
Leu	Arg	Ala	Ala	Leu	Leu	Glu	Arg	Met	Leu	Phe	Phe	Val	His	Glu	Leu
		115					120					125			
His	Pro	Pro	Gly	Asn	Arg	Ala	Gly	Gln	Gly	Trp	Ala	Glu	Gly	Thr	Gln
	130					135					140				
Gly	Gly	Arg	Asp	Gly	Gly	Arg	Arg	Arg	Arg	Arg	Arg	Arg	Ala	Gly	Gly
145				150					155					160	
Phe	Ser	Gly	Ala	Asp	Pro	Arg	Ile	Cys	Ala						
			165					170							

<210> 38
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 38

Met	Leu	Phe	Pro	Ile	Leu	Leu	Gln	Thr	Met	Phe	Ser	Ala	Tyr	Leu	Gly
1				5					10					15	
Ser	Glu	Gln	Tyr	Lys	Leu	Leu	Ile	Lys	Ala	Leu	Gln	Leu	Ser	Glu	Pro
			20					25					30		
Gly	Lys	Glu	Ile	His											
			35												

<210> 39
 <211> 64

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 39
 Met Lys Val Leu Ile Ser Ser Leu Leu Leu Leu Leu Pro Leu Met Leu
 1 5 10 15
 Met Ser Met Val Ser Ser Ser Leu Asn Pro Gly Val Ala Arg Gly His
 20 25 30
 Arg Asp Arg Gly Gln Xaa Ser Arg Arg Trp Leu Gln Glu Gly Gly Gln
 35 40 45
 Glu Cys Xaa Cys Lys Asp Trp Phe Leu Arg Ala Arg Glu Glu Asn Ser
 50 55 60

<210> 40
 <211> 155
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (139)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 40
 Met Cys Cys Ser Leu Ser Met Ile Gly Ala Ala Ser Ser Pro Ser Ser
 1 5 10 15
 Gly Cys Ser Ala Arg Ala Arg Ala Ser Ser Gly Leu Pro Trp Leu Trp
 20 25 30
 Gln Pro Cys Pro Gly Pro Arg Phe Arg Cys Ser Leu Trp Met Arg Arg
 35 40 45
 Ser Gln Ile Val Ala Pro Ser Thr Cys Ala Pro Arg Ser Gly Ala Xaa
 50 55 60

Gly Leu Ala Val Gly Cys Gly Ala Ile Gly Ala Leu Val Leu Gly Ala
65 70 75 80

Gly Leu Leu Phe Ser Leu Arg Ser Val Arg Ser Val Val Leu Arg Ala
85 90 95

Gly Gly Gln Gln Val Thr Leu Thr Thr His Ala Pro Phe Gly Leu Gly
100 105 110

Ala His Phe Thr Val Pro Leu Lys Gln Val Ser Cys Met Ala His Arg
115 120 125

Gly Glu Val Pro Ala Met Leu Pro Leu Lys Xaa Lys Gly Arg Arg Phe
130 135 140

Tyr Phe Leu Leu Asp Lys Thr Gly His Phe Pro
145 150 155

<210> 41

<211> 119

<212> PRT

<213> Homo sapiens

<400> 41

Met Thr Val Tyr Ala Leu Val Val Val Ser Tyr Phe Leu Ile Thr Gly
1 5 10 15

Gly Ile Ile Tyr Asp Val Ile Val Glu Pro Pro Ser Val Gly Ser Met
20 25 30

Thr Asp Glu His Gly His Gln Arg Pro Val Ala Phe Leu Ala Tyr Arg
35 40 45

Val Asn Gly Gln Tyr Ile Met Glu Gly Leu Ala Ser Ser Phe Leu Phe
50 55 60

Thr Met Gly Gly Leu Gly Phe Ile Ile Leu Asp Arg Ser Asn Ala Pro
65 70 75 80

Asn Ile Pro Lys Leu Asn Arg Phe Leu Leu Leu Phe Ile Gly Phe Val
85 90 95

Cys Val Leu Leu Ser Phe Phe Met Ala Arg Val Phe Met Arg Met Lys
100 105 110

Leu Pro Gly Tyr Leu Met Gly
115

<210> 42

<211> 56

<212> PRT

<213> Homo sapiens

<400> 42

Met Glu Ser Gly His Leu Leu Trp Ala Leu Leu Phe Met Gln Ser Leu
1 5 10 15

Trp Pro Gln Leu Thr Asp Gly Ala Thr Arg Val Tyr Tyr Leu Gly Ile
20 25 30

Arg Asp Val Gln Trp Asn Tyr Ala Pro Lys Gly Arg Asn Val Ile Thr
35 40 45

Asn Gln Pro Leu Asp Ser Asp Met
50 55

<210> 43

<211> 109

<212> PRT

<213> Homo sapiens

<400> 43

Met Lys Asp Phe Asn His Ser Tyr His Ala Cys Gly Val Ile Ala Thr
1 5 10 15

Ile Ala Phe Leu Met Ile Asn Ala Val Ser Asn Gly Gln Val Arg Gly
20 25 30

Asp Ser Tyr Ser Glu Gly Cys Leu Gly Gln Thr Gly Ala Arg Ile Trp
35 40 45

Leu Phe Val Gly Phe Met Leu Ala Phe Gly Ser Leu Ile Ala Ser Met
50 55 60

Trp Ile Leu Phe Gly Gly Tyr Val Ala Lys Glu Lys Asp Ile Val Tyr
65 70 75 80

Pro Gly Ile Ala Val Phe Phe Gln Asn Ala Phe Ile Phe Phe Gly Gly
85 90 95

Leu Val Phe Lys Phe Gly Arg Thr Glu Asp Leu Trp Gln
100 105

<210> 44

<211> 69

<212> PRT

<213> Homo sapiens

<400> 44

Met Val Thr Ile Phe Asn Ile Ile Thr Thr Thr Thr Ile Leu Pro Thr
1 5 10 15

Gln Thr Ala Ala Ala Pro Pro Ser Trp Thr Pro Ala Val Cys Ser Leu
20 25 30

Ser Ser Trp Pro Gly Ser Pro Arg Ser Trp Ala Gly Pro Val Leu Arg
35 40 45

Asp Ser Ala Arg Arg Cys Ala Trp Asn Ser Trp Thr Thr Arg Ala Asp
50 55 60

Pro Ser Ser Ala Met

65

<210> 45

<211> 67

<212> PRT

<213> Homo sapiens

<400> 45

Met Gly Lys Cys Leu Cys Arg Gly Ala Glu Leu Ser Leu Cys Phe Ser
 1 5 10 15

Phe Phe Pro Leu Leu Leu Pro Leu His Thr Pro Val Ala Gly Arg Asn
 20 25 30

Leu Gly Phe Pro Glu Ser Leu Gly Val Pro Pro Phe Leu Pro His Pro
 35 40 45

Gly Gly Thr Pro Arg Ala Pro Gly Leu Phe Leu Leu Leu Phe Ser Phe
 50 55 60

Trp Ala Val
 65

<210> 46

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 46

Met Leu Leu Leu Met Ile Leu Glu Xaa Phe Pro Cys Pro Gln Pro Gly
 1 5 10 15

Thr Asn Val Ile Ile Ile Ser Met Cys Phe Phe Leu Ser His Ser Asn
 20 25 30

Ala Ile Tyr Leu Gln His Tyr His Phe
 35 40

<210> 47

<211> 52

<212> PRT

<213> Homo sapiens

<400> 47

Met Tyr Phe Leu Ser Ser Leu Leu Ile His Glu His Val Ile Ser Val
 1 5 10 15

Ile Phe Ser Ile Leu Ile Phe Ser Ser Val Leu His Ser Phe Gln Tyr
 20 25 30

Thr Asn Pro Val Pro Phe Phe Phe Arg Phe Thr Pro Ser Thr Leu Phe
 35 40 45

Phe Glu Gln Leu
 50

<210> 48
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 48
 Met Gly Asn Cys His Asp His Arg Gly Leu Glu Phe Cys Phe Phe Phe
 1 5 10 15

Phe Phe Phe Phe Phe Gly Gly Leu Gly Asp Ser Ser Gln Asp His Ile
 20 25 30

Leu Ala Ser Phe Ser Pro Thr Pro Phe Arg Lys Ile Ser Asn Arg
 35 40 45

<210> 49
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 49
 Met His His His Thr Leu Leu Ile Phe Val Phe Leu Val Glu Thr Ala
 1 5 10 15

Phe His His Leu Gly Gln Thr Gly Leu Lys Leu Leu Ala Ser Ser Asp
 20 25 30

Ser Ser Ala Ser Ala Ser Gln Lys Lys Lys Lys Lys Lys Lys Lys Asn
 35 40 45

Ser

<210> 50
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 50
 Met His Gln His Ala Gln Leu Ser Ile Leu Phe Leu Val Glu Ile Arg
 1 5 10 15

Ser Cys Cys Val Ala Gln Ala Ser Leu Lys Phe Leu Ala Ser Ser Asn
 20 25 30

Pro Ser Ala Leu Ala Ser Gln Ile Val Gly Phe Xaa Arg His
35 40 45

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<210> 51
<211> 30
<212> PRT
<213> Homo sapiens
```

```
<400> 51
Met Asp His Ser Pro Phe Ala Gly Ile Asn Asn Thr Ala Val Leu Val
  1             5             10             15
```

Leu Thr Leu His Phe His His Ala Thr Leu Ser Val Thr Glu
20 25 30

```
<210> 52
<211> 25
<212> PRT
<213> Homo sapiens
```

<400> 52
Met Val Glu Leu Ala Ser Cys Asn Ser Pro Phe Ser Phe Leu Pro Leu
1 5 10 15

Ser Leu Pro Ala Phe Pro Ile Leu Leu
20 25

```
<210> 53
<211> 35
<212> PRT
<213> Homo sapiens
```

<400> 53
Cys Ala Gly Cys Asp Glu Leu Ile Phe Ser Asn Glu Tyr Thr Gln Ala
1 5 10 15

Glu Asn Gln Asn Trp His Leu Lys His Phe Cys Cys Phe Asp Cys Asp
20 25 30

Ser Ile Leu
35

```
<210> 54
<211> 159
<212> PRT
<213> Homo sapiens
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<400> 54
Ala Arg Gly Phe Val Cys Ser Thr Cys His Glu Leu Leu Val Asp Met
1 5 10 15

Ile Tyr Phe Trp Lys Asn Glu Lys Leu Tyr Cys Gly Arg His Tyr Cys
20 25 30

Asp Ser Glu Lys Pro Arg Cys Ala Gly Cys Asp Glu Leu Ile Phe Ser
 35 40 45

Asn Glu Tyr Thr Gln Ala Glu Asn Gln Asn Trp His Leu Lys His Phe
 50 55 60

Cys Cys Phe Asp Cys Asp Ser Ile Leu Ala Gly Glu Ile Tyr Val Met
 65 70 75 80

Val Asn Asp Lys Pro Val Cys Lys Pro Cys Tyr Val Lys Asn His Ala
 85 90 95

Val Val Cys Gln Gly Cys His Asn Ala Ile Asp Pro Glu Val Gln Arg
 100 105 110

Val Thr Tyr Asn Asn Phe Ser Trp His Ala Ser Thr Glu Cys Phe Leu
 115 120 125

Cys Ser Cys Cys Ser Lys Cys Leu Ile Gly Gln Lys Phe Met Pro Val
 130 135 140

Glu Gly Met Val Phe Cys Ser Val Glu Cys Lys Lys Arg Met Ser
 145 150 155

<210> 55

<211> 38

<212> PRT

<213> Homo sapiens

<400> 55

Ile Arg His Glu Leu Leu Ile Gly Ser Asn Val Ser Pro Lys Arg Asn
 1 5 10 15

Glu Glu Gln Gly Arg Val Thr Phe Ser Phe Ser Leu Pro Leu Pro Trp
 20 25 30

Ile Trp Asn Ser Thr Ile
 35

<210> 56

<211> 150

<212> PRT

<213> Homo sapiens

<400> 56

Gln Met Ala Val Ser Phe Ser Pro Leu Gln Val Gly Asp Arg Ile Val
 1 5 10 15

Thr Ile Cys Gly Thr Ser Thr Glu Gly Met Thr His Thr Gln Ala Val
 20 25 30

Asn Leu Leu Lys Asn Ala Ser Gly Ser Ile Glu Met Gln Val Val Ala
 35 40 45

Gly Gly Asp Val Ser Val Val Thr Gly His Gln Gln Glu Pro Ala Ser

50 55 60
 Ser Ser Leu Ser Phe Thr Gly Leu Thr Ser Ser Ser Ile Phe Gln Asp
 65 70 75 80
 Asp Leu Gly Pro Pro Gln Cys Lys Ser Ile Thr Leu Glu Arg Gly Pro
 85 90 95
 Asp Gly Leu Gly Phe Ser Ile Val Gly Arg Ile Trp Ala Ala Leu Met
 100 105 110
 Gly Asp Leu Pro Ile Tyr Val Lys Thr Val Phe Cys Lys Gly Glu Gln
 115 120 125
 Pro Leu Glu Asp Gly Arg Leu Glu Lys Gly Gly Asp Ser Arg Ser Leu
 130 135 140
 Leu Ser Met Gly Arg Val
 145 150

<210> 57
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 57
 Val Tyr Tyr Thr Arg Ala Arg Thr Arg Trp Leu Arg Leu Gln Tyr Ser
 1 5 10 15
 Trp Glu Asp Met Gly Ser Pro His Gly Arg Leu Thr His Leu Cys
 20 25 30

<210> 58
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 58
 Thr Pro Ala Trp Leu Arg Lys Glu Glu Ala Pro Thr Gly Cys Trp Glu
 1 5 10 15
 Glu Ser Ile Arg Leu Lys Met Glu Asn His Lys Ser Asn Asn Lys Glu
 20 25 30
 Asn Ile Thr Ile Val Asp Ile Ser Arg Lys Ile Asn Gln Leu Pro Glu
 35 40 45
 Ala Glu Arg Asn Leu Leu Glu Asn Gly Ser Val Tyr Val Gly Leu Asn
 50 55 60
 Ala Ala Leu Cys Gly Leu Ile Ala Asn Ser Leu Phe Arg Arg Ile Leu
 65 70 75 80
 Asn Val Thr Lys Ala Arg Ile Ala Ala Gly Leu Pro Met Ala Gly Ile
 85 90 95

Pro Phe Leu Thr Thr Asp Leu Thr Tyr Arg Cys Phe Val Ser Phe Pro
100 105 110

Leu Asn Thr Gly Asp Leu Asp Cys Glu Thr Cys Thr Ile Thr Arg Ser
115 120 125

Gly Leu Thr Gly Leu Val Ile Gly Gly Leu Tyr Pro Val Phe Leu Ala
130 135 140

Ile Pro Val Asn Gly Gly Leu Ala Ala Arg Tyr Gln Ser Ala Leu Leu
145 150 155 160

Pro His Lys Gly Asn Ile Leu Ser Tyr Trp Ile Arg Thr Ser Lys Pro
165 170 175

Val Phe Arg Lys
180

<210> 59

<211> 93

<212> PRT

<213> Homo sapiens

<400> 59

Gly Val Ala Arg Gly His Arg Asp Arg Gly Gln Ala Ser Arg Arg Trp
1 5 10 15

Leu Gln Glu Gly Gly Gln Glu Cys Glu Cys Lys Asp Trp Phe Leu Arg
20 25 30

Ala Pro Arg Arg Lys Phe Met Thr Val Ser Gly Leu Pro Lys Lys Gln
35 40 45

Cys Pro Cys Asp His Phe Lys Gly Asn Val Lys Lys Thr Arg His Gln
50 55 60

Arg His His Arg Lys Pro Asn Lys His Ser Arg Ala Cys Gln Gln Phe
65 70 75 80

Leu Lys Gln Cys Gln Leu Arg Ser Phe Ala Leu Pro Leu
85 90

<210> 60

<211> 39

<212> PRT

<213> Homo sapiens

<400> 60

Ser Ile Asp His Gln Ala Glu Tyr Pro Asp Leu Ser His Pro Gln Gly
1 5 10 15

Ser Gly Ala Ser Ser Arg Glu Pro Ser Ile Ile Phe Phe Lys Gln Leu
20 25 30

Thr Ala Ala Pro Thr Val Ala
35

<210> 61
 <211> 159
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 61
 Gly Thr Arg Arg Arg Trp Pro Thr Gly Leu Leu Ala Val Leu Arg Pro
 1 5 10 15
 Leu Leu Thr Cys Arg Pro Leu Gln Gly Thr Thr Leu Gln Arg Asp Val
 20 25 30
 Leu Leu Phe Glu His Asp Arg Gly Arg Phe Phe Thr Ile Leu Gly Leu
 35 40 45
 Phe Cys Ala Gly Gln Gly Val Phe Trp Ala Ser Met Ala Val Ala Ala
 50 55 60
 Val Ser Arg Pro Pro Val Pro Val Gln Pro Leu Asp Ala Glu Val Pro
 65 70 75 80
 Asn Arg Gly Pro Phe Asp Leu Arg Ser Ala Xaa Trp Arg Xaa Arg Ser
 85 90 95
 Gly Arg Arg Leu Arg Arg His Arg Ser Pro Arg Thr Arg Cys Trp Ser
 100 105 110
 Ser Leu Leu Ser Pro Val Cys Ala Leu Ser Gly Ala Ser Ser Trp Arg
 115 120 125
 Ala Ala Gly Asp Pro His His Ser Cys Pro Leu Trp Leu Gly Gly Pro
 130 135 140
 Phe His Ser Ser Phe Glu Ala Gly Ile Leu His Gly Pro Pro Gly
 145 150 155

<210> 62
 <211> 124
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 62

Val Val Arg Val Thr Cys Cys Pro Pro Ala Arg Ser Thr Thr Glu Arg
 1 5 10 15

Thr Asp Arg Arg Glu Lys Arg Arg Pro Ala Pro Ser Thr Arg Ala Pro
 20 25 30

Met Ala Pro Gln Pro Thr Ala Arg Pro Xaa Ala Pro Glu Arg Gly Ala
 35 40 45

Gln Val Glu Gly Ala Thr Ile Trp Asp Leu Arg Ile Gln Arg Leu His
 50 55 60

Arg Asn Arg Gly Pro Gly His Gly Cys His Ser His Gly Ser Pro Glu
 65 70 75 80

Asp Ala Leu Ala Arg Ala Glu Gln Pro Glu Asp Gly Glu Glu Ala Ala
 85 90 95

Pro Ile Met Leu Lys Glu Gln His Ile Pro Leu Gln Arg Arg Ala Leu
 100 105 110

Gln Gly Pro Ala Gly Glu Gln Gly Pro Gln His Gly
 115 120

<210> 63

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 63

Asp Pro Arg Val Arg Ala Gly Leu Phe Pro Gly Gly Ala Trp Gly Leu
 1 5 10 15

Arg Pro Arg Thr Ala Xaa Ala Ala Thr Asn Met Glu Thr Leu Tyr Arg
 20 25 30

Val Pro Phe Leu Val Leu Glu Cys Pro Asn Leu Lys Leu Lys Lys Pro
 35 40 45

Pro Trp Leu His Met Pro Ser Ala
 50 55

<210> 64

<211> 56

<212> PRT

<213> Homo sapiens

<400> 64

Leu Met Glu Pro Leu Glu Ser Thr Thr Trp Ala Ser Gly Met Cys Ser

1 5 10 15
 Gly Thr Met Leu Pro Arg Glu Glu Met Ser Ser Arg Thr Ser Leu Trp
 20 25 30
 Thr Val Thr Cys Arg Phe Asn Phe Leu Trp Tyr Leu Arg Gly Ser Tyr
 35 40 45
 Gly Ser Thr Leu Glu Val Arg Lys
 50 55

<210> 65
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 65
 Ile Ser Ser Ile Val Gly Met Arg Leu Glu Asn Ser Lys Tyr Gly Ile
 1 5 10 15

Xaa Phe Arg Thr Leu Lys Met Leu Arg Gln Thr Pro Asp Glu Met Leu
 20 25 30

Xaa Ser Asp Ser Thr Ser Phe Phe Pro Gly Asn Leu Pro Leu Ser Met
 35 40 45

Tyr Ser Ser Glu Gln Ser Gly Ala Gly Cys Tyr His Thr Leu Gly Lys
 50 55 60

Gly Pro Gln Glu Ala Thr Ser
 65 70

<210> 66
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 66
 Asn Arg Gly Ser Glu Ala Gly Arg Arg Gly Ala Thr Pro Gly Ser Gly
 1 5 10 15

Thr Thr Ala Arg Arg Gly Trp Thr Asp Leu Lys Lys Met Ser Gly Phe
 20 25 30

Leu Glu Gly Leu Arg Cys Ser Glu Cys Ile Asp Trp Gly Glu Lys Arg
 35 40 45

Asn Thr Ile Ala Ser Ile Ala Ala Gly Val Leu Phe Phe Thr Gly Trp
 50 55 60

Trp Ile Ile Ile Asp Ala Ala Val Ile Tyr Pro Thr
 65 70 75

<210> 67

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 67

Lys Thr Leu Val Thr Ser Leu Lys Thr Gly Thr Lys Ala Asn Gly Arg
 1 5 10 15

Leu Pro Leu Glu Arg Ser Ala His Arg Ala Thr Ser His Ala Tyr Ser
 20 25 30

Gln Met Ala Tyr Ser Lys Leu Ala Leu Pro Thr Ser Ser Cys Glu Pro
 35 40 45

Arg Ala Ala Glu Ser Pro Gly Thr Gln Arg Pro Gly Met Xaa Arg Arg
 50 55 60

Val Val Val Val Gly Val Ala Pro Ser Gly Pro Gly Ala Pro Ala Cys
 65 70 75 80

Arg Pro Val Ser Ala Cys Ala Thr Glu Pro Gly Gly Trp Tyr Cys Cys
 85 90 95

Ile Arg Val Ser Gly Gly Cys Gly Arg Phe Val Phe Leu Ala Lys Ile
 100 105 110

Gly Gly Val Arg Arg Ala Gly Ala Ala Arg His Arg Ala Pro Glu Pro
 115 120 125

Leu His Asp Gly Ala Gly Leu Thr
 130 135

<210> 68

<211> 175

<212> PRT

<213> Homo sapiens

<400> 68

Cys Cys Asn Gly Asn Trp Pro Ser Cys Asn Ala Lys Val Thr Phe Leu
 1 5 10 15

Leu Ser Pro Ala Leu Thr Met Trp Arg Val Val Thr Glu Pro Pro Cys
 20 25 30

Ile Arg Thr Ser Ser Tyr Lys Leu Leu Ser Ala Ala Trp Ser Pro Phe
35 40 45

Ser Thr Ser Ser Pro Pro Pro Pro Tyr Ser Pro Leu Arg Pro Pro Pro
50 55 60

Arg Arg His His Gly His Gln Pro Cys Ala Ala Tyr Gln Ala Gly Gln
65 70 75 80

Gly His Gln Gly Pro Gly Gln Asp Arg Phe Ser Gly Thr Val His Ala
85 90 95

Gly Ala Arg Gly Ile His Gly Arg His Glu Pro Ile His His Pro Gln
100 105 110

Cys Lys Arg Pro Arg Ala Arg Gly Arg Arg Ala His Pro Phe Gly Val
115 120 125

Arg Ala Arg Ser Pro Glu Val Ala Leu Ser Leu Ala Ala Arg Trp Val
130 135 140

Leu Asp Val Gly Phe Asp His Leu Ala Asp Gly Asn Gly Leu Ser Gln
145 150 155 160

Ser Ala Pro Phe Phe Cys Pro Pro His Val Thr Glu Met Leu Leu
165 170 175

<210> 69

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 69

Phe Gly Thr Arg Ser Gln Ala Thr Ser Ala Ser Ile Asn Asn Ser Asn
1 5 10 15

Pro Ser Thr Ser Glu Gln Ala Ser Asn Thr Xaa Ser Ala Val Thr Ser
20 25 30

Ser Gln Pro Ser Thr Val Ser Glu Thr Ser Ala Thr Leu Thr Ser Asn
35 40 45

Ser Thr Thr Gly Thr Ser Ile Gly Asp Asp Ser Arg Arg Thr Thr Ser
50 55 60

Ser Ala Val Thr Glu Thr Gly Pro Pro Ala Met Pro Arg Leu Pro Ser
65 70 75 80

Cys Cys Pro Gln His Ser Pro Cys Gly Gly Ser Ser Gln Asn His His
85 90 95

Ala Leu Gly His Pro His Thr Ser Cys Phe Gln Gln His Gly His His
 100 105 110

Phe Gln His His His His His His Thr Pro His Ser Asp Arg Arg
 115 120 125

Arg Ala Ala Ile Met Asp Thr Ser Arg Val Gln Pro Ile Lys Leu Ala
 130 135 140

Arg Val Thr Lys Val Leu Gly Arg Thr Gly Ser Gln Gly Gln Cys Thr
 145 150 155 160

Gln Val Arg Val Glu Phe Met Asp Asp Thr Ser Arg Ser Ile Ile Arg
 165 170 175

Asn Val Lys Gly Pro Val Arg Glu Gly Asp Val Leu Thr Leu Leu Glu
 180 185 190

Ser Glu Arg Glu Ala Arg Arg Leu Arg
 195 200

<210> 70

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 70

Gly Xaa Arg Arg Gly Arg Glu Trp Asp Cys Ala Ile Met Phe Ile Arg
 1 5 10 15

Arg Leu Asp Phe Gly Val Cys Ser Arg Gln Ile Gln Asn Lys Tyr Leu
 20 25 30

Arg Leu Glu Asn Arg Lys Ser Thr Ile His Thr Lys Cys Ser Leu Gln
 35 40 45

Glu Val Ala Val Ser Lys Ser Arg Gln Gly Pro Asn Ser Gly Gln Pro
 50 55 60

Leu Leu Pro Ala Asp Leu Asn Lys Gly Cys Ala Ile Val Phe Tyr Phe
 65 70 75 80

Ile Ile Leu Phe Leu Phe Ile Ile Ile Asn Ile Ile Ile Ile Cys Phe
 85 90 95

Cys Cys Gly His Tyr His Trp Gln Ser Ser Phe Ser Pro Phe Leu Asp
 100 105 110

Ile Gly Val Leu Ser Leu Lys Asp Ser Thr Leu Arg Leu Lys Val Pro
 115 120 125

Lys Ala Ala

130

<210> 71

<211> 92

<212> PRT

<213> Homo sapiens

<400> 71

Ile Met Asn Ser Asp Ala Glu Val Thr Val Gly Ala Gly Leu Gly Gln
 1 5 10 15

Asp Gly Arg Trp Pro Trp Arg Trp Glu Ser Val Cys Val Glu Ala Leu
 20 25 30

Ser Ser Leu Ser Val Ser Pro Phe Phe Leu Tyr Ser Phe Pro Phe Thr
 35 40 45

Pro Pro Trp Leu Glu Gly Thr Ser Ala Ser Leu Lys Ala Trp Gly Ser
 50 55 60

His Pro Ser Tyr Pro Thr Arg Glu Glu Arg Pro Gly Pro Arg Ala Cys
 65 70 75 80

Phe Ser Ser Cys Phe Pro Phe Gly Gln Phe Asp His
 85 90

<210> 72

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 72

Ala Leu Cys Met Asn Arg Gly Leu Pro Val Leu Lys Ala Gln Val Phe
 1 5 10 15

Ile Leu Tyr Leu Ser Arg Ala His Thr Lys Ile Gln Pro Ser Asn Lys
 20 25 30

His Asp Gly Ala Val Pro Leu Pro Ala Ser Pro Val Pro Leu Ser Pro
 35 40 45

Pro Gly Leu Gly Ser Ser Gly Val Gly Val Gly Arg Gly Pro Cys Pro
 50 55 60

Pro Cys Leu Asp Phe Ala Pro Leu Gly Pro Ala Gly Ser Arg Pro Val
 65 70 75 80

Asn Val Ser Ser Ser Gly Thr Asp Ser Val Cys Ser Trp Ala Leu Gly
 85 90 95

Ser Phe Asp Lys Tyr Leu Pro Lys Gly Ser Gln Xaa

100

105

<210> 73
 <211> 176
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 73

Trp Xaa Trp Glu Pro Leu Gly Lys Tyr Leu Ser Asn Asp Pro Lys Ala
 1 5 10 15

Gln Glu Gln Thr Glu Ser Val Pro Asp Glu Leu Thr Phe Thr Gly Leu
 20 25 30

Glu Pro Ala Gly Pro Arg Gly Ala Lys Ser Arg Gln Gly Gly Gln Gly
 35 40 45

Pro Leu Pro Thr Pro Thr Pro Glu Asp Pro Arg Pro Gly Gly Asp Arg
 50 55 60

Gly Thr Gly Glu Ala Gly Ser Gly Thr Ala Pro Ser Cys Leu Leu Glu
 65 70 75 80

Gly Trp Ile Leu Val Cys Ala Leu Asp Arg Tyr Arg Ile Asn Thr Cys
 85 90 95

Ala Leu Arg Thr Gly Ser Pro Arg Phe Ile Gln Ser Ala His Tyr Arg
 100 105 110

Lys Leu Leu Cys Gln Asn Pro Gly Lys Asp Pro Thr Pro Gly Ser Pro
 115 120 125

Ser Ser Leu Leu Thr Ser Thr Arg Ala Val Leu Leu Phe Phe Ile Leu
 130 135 140

Leu Phe Tyr Phe Ser Leu Leu Leu Leu Ile Leu Leu Leu Phe Ala Phe
 145 150 155 160

Ala Val Val Thr Ile Ile Gly Lys Val Pro Phe Pro Leu Ser Trp Thr
 165 170 175

<210> 74
 <211> 39
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 74

Ala Leu Phe Ile Phe Pro Asn Phe Phe His Ser Pro Gly Ile Ile His
1 5 10 15

Cys Ser Pro Ser Leu Pro Cys Ser Asp Met Xaa Pro Met Ser Pro Gln
20 25 30

Gly Arg Leu Xaa Cys His Lys
35

<210> 75

<211> 12

<212> PRT

<213> Homo sapiens

<400> 75

His Thr Gln Val Glu Phe Ile Pro Arg Met Gln Cys
1 5 10

<210> 76

<211> 16

<212> PRT

<213> Homo sapiens

<400> 76

Leu Lys Ile Arg Lys Pro Ile Asn Val Ile Tyr His Ile Asn Arg Leu
1 5 10 15

<210> 77

<211> 16

<212> PRT

<213> Homo sapiens

<400> 77

Arg Lys Met Gly Ile Glu Arg Asn Phe His Gln Ser Gly Lys Gly Ile
1 5 10 15

<210> 78

<211> 21

<212> PRT

<213> Homo sapiens

<400> 78

Lys Val Pro Thr Ala Asn Ile Ile Leu Asn Gly Glu Arg Leu Asn Ala
 1 5 10 15

Phe Pro Ile Arg Thr
 20

<210> 79

<211> 28

<212> PRT

<213> Homo sapiens

<400> 79

Ile Phe Ser Ser Val Leu His Ser Phe Gln Tyr Thr Asn Pro Val Pro
 1 5 10 15

Phe Phe Phe Arg Phe Thr Pro Ser Thr Leu Phe Phe
 20 25

<210> 80

<211> 21

<212> PRT

<213> Homo sapiens

<400> 80

Lys Val Pro Thr Ala Asn Ile Ile Leu Asn Gly Glu Arg Leu Asn Ala
 1 5 10 15

Phe Pro Ile Arg Thr
 20

<210> 81

<211> 21

<212> PRT

<213> Homo sapiens

<400> 81

Met Tyr Phe Leu Ser Ser Leu Leu Ile His Glu His Val Ile Ser Val
 1 5 10 15

Ile Phe Ser Ile Leu
 20

<210> 82

<211> 41

<212> PRT

<213> Homo sapiens

<400> 82

Gln Ser Leu Thr Val Ser Pro Arg Leu Glu Cys Ser Ser Thr Ile Ser
 1 5 10 15

Ala Leu Cys Asn Ile Phe Leu Pro Gly Ser Ser Asp Ser His Ala Ser
 20 25 30

Ala Pro Gln Val Ala Gly Ile Thr Gly
 35 40

<210> 83
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 83
 Glu Asp Gly Ser Ala Pro Arg Glu Gly Glu Thr Ser Ala Pro Arg Leu
 1 5 10 15

Pro Glu Val Val Arg Ile Thr Ser Ala Gly Ile Cys Xaa
 20 25

<210> 84
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 84
 Val Ala Gly Ser Cys Thr His His Phe Cys Trp Tyr Leu Leu Ala Gln
 1 5 10 15

Pro Arg Pro Arg Gly Leu Ser Gln Met Pro Glu Thr Met Arg Arg Arg
 20 25 30

Arg Glu Arg Ala Trp Arg Arg
 35

<210> 85
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 85
 His Leu Trp Val Ala Val Ile Gln Leu Pro Thr Val Trp His Asp Glu
 1 5 10 15

Asn Glu Val Leu Lys Gln Gly Leu Gln Tyr Cys Leu Phe Gln Gln Met
 20 25 30

Val Ser Gly Pro Ser Phe Ser Lys Pro Phe Leu Phe Phe Phe Ser Trp
 35 40 45

Ser Leu Ala Ser Gly Arg Val His Val Ala Trp Val Gly Leu Thr Asp
 50 55 60

Thr Ser Arg Ser Asp Ala Tyr Asn Phe Arg Gln Pro Arg Cys Thr Cys
 65 70 75 80

Leu Ala Leu Pro Gly Ser Arg Ser Ile Leu Lys Pro Ala Asp Lys Asp

85

90

95

Asn Ala Val Val Gly Thr Glu
100

<210> 86

<211> 95

<212> PRT

<213> Homo sapiens

<400> 86

Ser Val Pro Thr Thr Ala Leu Ser Leu Ser Ala Gly Leu Arg Met Asp
1 5 10 15

Leu Leu Pro Gly Arg Ala Arg Gln Val His Leu Gly Cys Arg Lys Leu
20 25 30

Tyr Ala Ser Leu Leu Leu Val Ser Val Ser Pro Thr Gln Ala Thr Trp
35 40 45

Thr Leu Pro Asp Ala Arg Asp His Glu Lys Lys Lys Arg Lys Gly Leu
50 55 60

Glu Lys Asp Gly Pro Leu Thr Ile Cys Trp Asn Lys Gln Tyr Cys Ser
65 70 75 80

Pro Cys Phe Asn Thr Ser Phe Ser Ser Cys His Thr Val Gly Asn
85 90 95